

GOVERNMENT OF GOA  
QUALITY CONTROL LABORATORY  
WATER RESOURCES DEPARTMENT

Test Report No: WRD/QC/F.6-2/Cube -T : 7371,7372,7387,7388,7394,7395/Lab/125/2023 - 24 Dated:- 04/07/2023.  
7408,7409,7416,7417,7426,7534,7443.

Laboratory : Bicholim - Goa.  
Sub Division V (QC)/WRD/ Bicholim- Goa.

**Name of work : Construction of protection wall for nallah bank in Sy. No. 130/2, 131/1 and 131/3 from downstream of road bridge of Village Poriem in Sattari Taluka.**

Ref. to Requisition No : F.50/SDIV/WDVI/WRD/2023-24/45. Dt.:- 22/06/2023

Qty. Recived : 13 Sets of cube Date of Receipt:- 23/06/2023. Tested on:- 23,24,25,26,27,28,29 & 30/06/2023 as per due dates. Ref to CPWD :2009, Vol. I

Sample: Cube Mix 1:2:4 O.S No : 1539,1540/RK & 983,984,1002,1003,1009,1010,1024,1025,1032,1040,1049/SS. Lab. Sample No: 7568 to 7580

Tested By: Mrs. R.R. Kadam A.E. & Mrs. S.B. Naik Shirodkar J.E.

**Cube test witnessed by Shri Abdul Kadar Budhasab representative by agency Abdul Kadar Budhasab, Naikwada, Canca Bardez Goa. On 23/06/2023.**

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SR. NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
1	Cement concrete cube of mix 1:2:4, cast on 26/05/2023. For 3rd Lift (L.H.S) Ch. 0.00 to 40.00 mt.	28 <sup>th</sup> day compressive strength	210.67	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	3.91	Qty represents - 22.00 m3 for two sets of cube.
			231.06	Kg/Cm <sup>2</sup>			
			212.93	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>218.22</b>	<b>Kg/Cm<sup>2</sup></b>			
2	Cement concrete cube of mix 1:2:4, cast on 26/05/2023. For 3rd Lift (L.H.S) Ch. 0.00 to 40.00 mt.	28 <sup>th</sup> day compressive strength	208.40	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	4.99	--do--
			219.73	Kg/Cm <sup>2</sup>			
			233.32	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>220.49</b>	<b>Kg/Cm<sup>2</sup></b>			
3	Cement concrete cube of mix 1:2:4, cast on 27/05/2023. For 3rd Lift (L.H.S) Ch. 40.00 to 80.00 mt.	28 <sup>th</sup> day compressive strength	201.61	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	5.35	Qty represents - 21.60 m3 for two sets of cube.
			235.59	Kg/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>221.24</b>	<b>Kg/Cm<sup>2</sup></b>			
4	Cement concrete cube of mix 1:2:4, cast on 27/05/2023. For 3rd Lift (L.H.S) Ch. 40.00 to 80.00 mt.	28 <sup>th</sup> day compressive strength	215.20	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	4.27	--do--
			233.32	Kg/Cm <sup>2</sup>			
			208.40	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>218.98</b>	<b>Kg/Cm<sup>2</sup></b>			
5	Cement concrete cube of mix 1:2:4, cast on 28/05/2023. For 3rd Lift (L.H.S) Ch. 80.00 to 120.00 mt.	28 <sup>th</sup> day compressive strength	210.67	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	3.55	Qty represents - 21.50 m3 for two sets of cube.
			226.53	Kg/Cm <sup>2</sup>			
			215.20	Kg/Cm <sup>2</sup>			
		<b>Average</b>	<b>217.47</b>	<b>Kg/Cm<sup>2</sup></b>			

Junior Engineer

Assistant Engineer

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SR. NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
6	Cement concrete cube of mix <b>1:2:4</b> , cast on 28/05/2023. For 3rd Lift (L.H.S) Ch. 80.00 to 120.00 mt.	28 <sup>th</sup> day compressive strength	235.59	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	3.91	Qty represents - 21.50 m3 for two sets of cube.
			215.20	Kg/Cm <sup>2</sup>			
			203.87	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>218.22</b>			
7	Cement concrete cube of mix <b>1:2:4</b> , cast on 29/05/2023. For 3rd Lift (R.H.S) Ch. 0.00 to 40.00 mt.	28 <sup>th</sup> day compressive strength	212.93	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	6.07	Qty represents - 22.00 m3 for two sets of cube.
			246.91	Kg/Cm <sup>2</sup>			
			208.40	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>222.75</b>			
8	Cement concrete cube of mix <b>1:2:4</b> , cast on 29/05/2023. For 3rd Lift (R.H.S) Ch. 0.00 to 40.00 mt.	28 <sup>th</sup> day compressive strength	235.59	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	8.23	--do--
			233.32	Kg/Cm <sup>2</sup>			
			212.93	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>227.28</b>			
9	Cement concrete cube of mix <b>1:2:4</b> , cast on 30/05/2023. For 3rd Lift (R.H.S) Ch. 40.00 to 80.00 mt.	28 <sup>th</sup> day compressive strength	219.73	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	5.35	Qty represents - 21.80 m3 for two sets of cube.
			235.59	Kg/Cm <sup>2</sup>			
			208.40	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>221.24</b>			
10	Cement concrete cube of mix <b>1:2:4</b> , cast on 30/05/2023. For 3rd Lift (R.H.S) Ch. 40.00 to 80.00 mt.	28 <sup>th</sup> day compressive strength	237.85	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	8.23	--do--
			231.06	Kg/Cm <sup>2</sup>			
			212.93	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>227.28</b>			

Junior Engineer

Assistant Engineer

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SR. NO.	DISCRIPTION OF SAMPLE	TESTED FOR	RESULTS		Max./Min.Value permissable	% above or below	REMARK
11	Cement concrete cube of mix <b>1:2:4</b> , cast on 31/05/2023. For 4th Lift (L.H.S) Ch. 0.00 to 40.00 mt. (R.H.S) Ch. 0.00 to 40.00 mt.	28 <sup>th</sup> day compressive strength	235.59	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	9.31	Qty represents - 20.00 m3.
			215.20	Kg/Cm <sup>2</sup>			
			237.85	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>229.55</b>			
12	Cement concrete cube of mix <b>1:2:4</b> , cast on 01/06/2023. For 4th Lift (L.H.S) Ch. 40.00 to 80.00 mt. (R.H.S) Ch. 40.00 to 80.00 mt.	28 <sup>th</sup> day compressive strength	233.32	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	10.39	Qty represents - 19.50 m3.
			226.53	Kg/Cm <sup>2</sup>			
			235.59	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>231.81</b>			
13	Cement concrete cube of mix <b>1:2:4</b> , cast on 02/06/2023. For 4th Lift (L.H.S) Ch. 80.00 to 120.00 mt.	28 <sup>th</sup> day compressive strength	237.85	Kg/Cm <sup>2</sup>	210.00 Kg/cm <sup>2</sup>	9.67	Qty represents - 9.60 m3.
			226.53	Kg/Cm <sup>2</sup>			
			226.53	Kg/Cm <sup>2</sup>			
			<b>Average</b>	<b>230.30</b>			

Copy to: 1. The Assistant Engineer, SDIV, WDV, WRD, Sarvan, Bicholim - Goa.

2. Copy submitted to The Superintending Engineer ,CPO,WRD, Sinchai Bhavan, Porvorim Goa for kind Information.

3. Copy submitted to The Executive Engineer, WDV, WRD, Sarvan, Bicholim - Goa.

4. QC Lab File.      5. Bill File.

**Junior Engineer**

**Assistant Engineer**